LIGHT-EMITTING DIODE HAVING CHEMICAL COMPOUND BASED REFLECTIVE STRUCTURE

ABSTRACT OF THE DISCLOSURE

A light-emitting diode (LED) includes a plurality of reflective layers stacked over each other and each comprising a distributed Bragg reflector, a substrate, an N type semiconductor formed on the substrate, a light emitting layer formed on the N type semiconductor layer and a P type semiconductor formed on the light emitting layer. The stack of the reflective layers is formed under the substrate or the stack is formed between the substrate and the N type semiconductor layer. The reflective layers receive and reflect light incident at different angles thereby alleviating escape of light from the light emitting diode and enhancing overall brightness of the light emitting diode.